

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-171490

(43)Date of publication of application : 26.06.1998

(51)Int.Cl.

G10L 3/00
G10L 3/00

(21)Application number : 08-330679

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(22)Date of filing : 11.12.1996

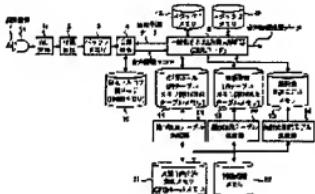
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(54) CONTINUOUS SPEECH RECOGNITION DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To make it possible to reduce a processing time and improve a recognition rate.

SOLUTION: Phoneme collation part 4 recognizes phoneme referring to HMM (hidden Markov model) based on a speech signal of vocalized speech sentence of a free utterance inputted, and a generalized LR parsing part 5 (GLR parser) analyzes the sentence structure and recognizes the above-mentioned vocalized speech sentence in the speech referring to a first LR parsing table generated based on CFG rule (context-free grammar rule), a second LR parsing table generated based on vocabulary rule, and a statistical language model including a bigram of the previous terminal symbol which is the last symbol but one showing a terminal element when the vocalized speech sentence is re-written according to the rule generated based on the CFG rule. The parser GLR 5 calculates a likelihood score for the speech recognition based on a sound score based on HMM and a language score based on the 1st and 2nd LR parsing tables and a statistical language model, and determines the speech recognition result by beam search by using a threshold value.



LEGAL STATUS

[Date of request for examination] 11.12.1996

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3027543

[Date of registration] 28.01.2000

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's